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(54) DIENE RUBBER AND ITS PRODUCTION

(57)Abstract:

PROBLEM TO BE SOLVED: To obtain a diene rubber reduced in heat buildup as an index of rolling resistance and properties (e.g. tensile strength, abrasion resistance and processability) and to provide a process for its production and to obtain a rubber composition containing the same.

SOLUTION: This rubber comprises 40-99.99wt.% units derived from a conjugated diene, 0.05-20wt.% units derived from silicon-containing vinyl monomer such as an alkoxysilyl, 0.05-20wt.% units derived from an amino vinyl monomer and a hydroxy vinyl monomer and 0-50wt.% units derived from other monomers and has a Mooney viscosity (ML1+4 100°C) of 10-200.

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